



## Maryland Green Registry MEMBER

The Maryland Green Registry promotes and recognizes sustainable practices at organizations of all types and sizes. Members agree to share at least five environmental practices and one measurable result while striving to continually improve their environmental performance.

# Carroll Community College

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Higher Education

Member since November 2009

### Management and Leadership

**Environmental Team**

*Carroll Community College will be creating a "Green Team" beginning in calendar year 2010. We are planning to meet on a monthly basis to discuss a variety of sustainability goals to reduce the college's impact on the environment while raising awareness of the need to be more sustainable in all activities.*

**Environmentally Preferable Procurement**

*Carroll Community College purchases "green" products whenever possible. We use remanufactured print toner cartridges college-wide on specific printers resulting in cost savings of approximately 40% off of OEM pricing thereby reducing the number of non-biodegradable plastic print cartridges entering our landfills.*

*In furnishing the new building that will soon be opening, many of our products and fabrics were made from recycled materials. These materials include steel, carpet, acoustical ceiling panels, drywall, and concrete.*

*The paper used campus-wide for copiers and printers is made of 30% post consumer waste.*

*Our facilities department has purchased and implemented use of Green Seal approved vacuum cleaners for use campus wide. These vacuums reduce harmful contaminants in the air and conserve resources.*

*Our food service company mandates that the food vendor support local farmers and food producers.*

**Environmentally Preferable Products and Services**

*Consumer education related to sustainability is offered to the community through Continuing Education & Training (CET). Seminars in partnership with the Green Building Institute of Jessup, MD are offered throughout the year. They cover a range of relevant topics including: "Introduction to Going Green", "Home Energy Audits", "Solar Energy Systems", "Smart Water Use" and "Indoor Air Quality". CET also regularly offers classes on the 'green' lifestyle including topics such as organic gardening, healthy eating and cooking, landscaping with native plants and others. The Summer Kids@Carroll program has ecology and sustainability offerings for youth ages 6-12.*

*The College will be offering training in home energy auditing and weatherization through the statewide community colleges' Construction and Energy Technologies Education Consortium. Carroll has a 5-member "green trades" advisory committee assisting with local development of new courses and training programs.*

**Environmental Restoration or Community Environmental Projects**

*Carroll Community College students have formed a "Green" Club and have completed several projects benefiting the environment. The club aggressively promotes recycling efforts and has distributed tree saplings to the College community. They also produced a public service radio announcement about tips for going 'green'.*

**Waste**

**Solid Waste/Material Use Reduction and Reuse**

*Duplex printing is used when applicable resulting in a reduction in the amount of paper used. Printing in econo-mode is used wherever a printer having an econo-mode setting is available, reducing the amount of toner being used. Our dining services contractor, Canteen, offers refillable cold beverage cups.*

**Recycling**

*Multiple areas have been provided for the collection and separation of materials for recycling, including a paper recycling container in each office suite.*

*With the opening of our new building, our kitchen will recycle its grease and we are looking at a company to collect our other kitchen waste for composting.*

*We currently recycle:*

- *Glass*
- *Plastic*
- *Aluminum*
- *Paper*
- *Batteries*
- *Cardboard*
- *Light tubes containing mercury and electronic ballasts, and*
- *Electronic equipment*

**Hazardous Waste/Toxic Use Reduction**

*We specify low-VOC (volatile organic compounds) paint and carpet products.*

## Energy

**Energy Efficiency**

*Carroll Community College has implemented the following programs and/or technologies to improve energy efficiency:*

- *All users are asked to turn off their PCs every evening (with the exception of GoToMy PC users) and most labs use a software program to turn the PC off in the evening. Each PC is automatically turned back on at 6 a.m. for updates.*
- *We have approximately 1200 LCD flat panel monitors on campus saving us approximately 120,000 kWh per year.*
- *Additional green cost savings have been realized over the past couple of years using virtual servers in the data center and power save options on PCs.*

*In our new building:*

- *We have chosen a compact building footprint with classroom wings oriented along natural site contours to reduce site disturbance. The building is also oriented on the site for optimum natural day lighting and solar control – with classroom windows facing both north and south exposures and glazing limited to the east and west.*
- *An Energy Management System (EMS) will be provided to monitor the use of energy in the building. An EMS is a computer that controls the operation of*

*all major building systems, in order to run the building efficiently and effectively and balance the source of energy with the consumption of energy.*

- *Dual technology occupancy sensors with manual override will be provided for all storage areas and limited-use utilitarian spaces.*
- *The building HVAC design will incorporate energy conservation features such as air-side economizer (free cooling) and variable frequency drives for fans and pumps to reduce energy consumption during non-peak heating and cooling periods.*
- *Only environmentally friendly refrigerant(s) will be utilized.*
- *Shade trees are planted strategically to shade paved walking surfaces and building facades as much as possible to reduce “heat island effects,” which contribute to higher summer temperatures. Heat island effects can result in increased cooling loads which require larger HVAC equipment and energy for building operations. These effects can be mitigated through the application of shading and the use of materials that reflect the sun’s heat instead of absorbing it.*
- *High-performance, double-glazed, “Low-E” windows with thermal breaks to control solar loads will be used. Low-energy glass is insulated and tinted to filter heat and UV rays from the sun and maximizes the amount of useable natural light to enter the building.*
- *Operable windows for natural ventilation and individual control will be used in the building, particularly near work stations.*

**Renewable Energy**

*Solar heating of domestic water is being considered for kitchen and non-kitchen areas.*

**Transportation**

**Employee Commute**

*Carroll Community College has contracted with a local shuttle service to provide transportation at special rates. Our students and employees can purchase a special pass to take advantage of this opportunity.*

**Efficient Business Travel**

*Along with all of the other community colleges, we have combined meeting locations, dates and times for risk management, facilities planning, business officers, procurement officers and human resources so that anyone traveling to these meetings can travel in one car.*

*To reduce the amount of travel we use webinars, internet, conference calls and distance learning labs whenever feasible.*

## Water

### **Water Conservation**

*Carroll utilizes the HOST carpet cleaning system, conserving water and at the same time reducing the amount of chemicals used.*

*The plumbing system minimizes the use of water including low-flow shower heads, and in our new building, water-conserving toilets (such as dual-flush and/or low-flow), one- pint flush urinals, and sensed faucets.*

### **Stormwater Management and Site Design**

*The existing storm water management pond is being excavated and squared off at the sides to accommodate an underground SWM solution and a modular underground rain tank system which will increase the capacity of the SWM system. An open lawn area will be created on top of the rain tanks, creating an improved visual appearance from the existing building as well as an area that can be used as a recreational field in the future.*

*An approved erosion control plan was implemented during construction to prevent the loss of soil during construction by storm water runoff and/or wind erosion and minimized polluting the air with dust and particulate matter.*

## Other



*In our new building, we will be implementing the following Indoor Environmental Quality measures:*

- Storage for chemical products, such as cleaning, printing, and copying supplies, will be contained in isolated or ventilated rooms.*
- Outside air will be measured and CO2 levels will be monitored to ensure proper and continuous ventilation quality is maintained.*

**Profile Updated March 2011**



*Help build a greener, more sustainable Maryland through voluntary practices that reduce environmental impacts and save money.*

*Learn more at [www.green.maryland.gov/registry](http://www.green.maryland.gov/registry)*

